



700 West Liberty Street | Louisville, KY 40203-1911
Phone: 502.540.6000 | LouisvilleMSD.org

January 17, 2020

Ms. Crystal Dennis
Kentucky Division of Water
200 Fair Oaks Lane
Frankfort, Kentucky 40601

**Re: Derek Guthrie Water Quality Treatment Center
KPDES Permit No. KY0078956,
Discharge monitoring report for December 2019.**

Dear Ms. Crystal Dennis:

Attached are the Discharge Monitoring Report (DMR) and the Monthly Operating Report (MOR) for the Derek Guthrie WQTC, KPDES No: KY0078956, for the month of December 2019.

There were no exceedances or bypass reports for the Derek Guthrie WQTC.

Also attached are overflow reports and the 4th quarter Biomonitoring NETDMR.

If you have any questions concerning the attached DMR's, please contact me at (502)540-6031.
Sincerely,

Kevin Thompson
Process Supervisor, West Region

KLT/West County 12/19
Enclosures

cc: C. Roth
V. Graves
R. Shaw

DMR Copy of Record

Permit																				
Permit #:	KY0078956			Permittee:	Derek R Guthrie WQTC MSD				Facility:	DEREK R GUTHRIE WQTC MSD										
Major:	Yes			Permittee Address:	700 W Liberty St Louisville, KY 40203				Facility Location:	11621 LOWER RIVER RD LOUISVILLE, KY 40272										
Permitted Feature:	001 External Outfall			Discharge:	001-2 QUARTERLY BIOMONITORING															
Report Dates & Status																				
Monitoring Period:	From 10/01/19 to 12/31/19			DMR Due Date:	01/28/20				Status:	NetDMR Validated										
Considerations for Form Completion																				
Principal Executive Officer																				
First Name:	James A.			Title:	Executive Director				Telephone:	502-540-6000										
Last Name:	Parrott																			
No Data Indicator (NODI)																				
Form NODI:	--																			
Code	Parameter Name	Monitoring Location	Season #	Param. NODI	Quantity or Loading					Quality or Concentration					# of Ex.	Frequency of Analysis	Sample Type			
					Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units				
61406	Toxicity, final conc toxicity units	1 - Effluent Gross	0	--	Sample										<	1.0	2F - tox acute	01/90 - Quarterly	24 - COMP24	
					Permit Req.										<=	1.0 MAXIMUM	2F - tox acute	0	01/90 - Quarterly	24 - COMP24
					Value NODI															
Submission Note																				
If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.																				
Edit Check Errors																				
No errors.																				
Comments																				
Attachments																				
No attachments.																				
Report Last Saved By																				
Derek R Guthrie WQTC MSD																				
User:	kevin.thompson@louisvillemsd.org																			
Name:	Kevin Thompson																			
E-Mail:	kevin.thompson@louisvillemsd.org																			
Date/Time:	2020-01-21 06:47 (Time Zone: -05:00)																			
Report Last Signed By																				
User:	kevin.thompson@louisvillemsd.org																			
Name:	Kevin Thompson																			
E-Mail:	kevin.thompson@louisvillemsd.org																			
Date/Time:	2020-01-21 10:15 (Time Zone: -05:00)																			

81011 Solids, suspended percent removal	K - Percent Removal	0	--	Sample	=	97.0	23 - %	01/30 - Monthly	CA - CALCTD
				Permit Req.	>=	85.0 MO AV MN	23 - %	01/30 - Monthly	CA - CALCTD
				Value NODI					

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

Attachments

Name	Type	Size
DischargeReport_DRG_December2019.pdf	pdf	22546.0
201912_DRG_Coverletter.pdf	pdf	53535.0
201912_DRG_MOR.pdf	pdf	82102.0

Report Last Saved By

Derek R Guthrie WQTC MSD

User: kevin.thompson@louisvillemtd.org
 Name: Kevin Thompson
 E-Mail: kevin.thompson@louisvillemtd.org
 Date/Time: 2020-01-21 06:46 (Time Zone: -05:00)

Report Last Signed By

User: kevin.thompson@louisvillemtd.org
 Name: Kevin Thompson
 E-Mail: kevin.thompson@louisvillemtd.org
 Date/Time: 2020-01-21 10:12 (Time Zone: -05:00)



KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0078956	MSD0277	DEREK R. GUTHRIE	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	25484	9317 LANTANA DR		PENNSYLVANIA RUN	STREAM

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Ref No</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
: DISREV: RAIN EVENT DISCHARGE	3186622		12/16/2019	ROTTET JR	SHAFFER	DOCUMENTE D	01/13/2013	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER PM	12/16/19 09:10	

Discharge Reporting:

Discharge Amount:	129 GAL
Cause:	LACK OF SYSTEM CAPACITY DUE TO HEAVY RAIN.
Clean Up:	MSD CLEANED AND SANITIZED IMPACTED AREA.
Control Zone:	TEMPORARY SIGNS PLACES AROUND IMPACTED AREA.
Impact:	SEWAGE AROUND MANHOLE.
Repair:	RAIN STOPPED ALLOWING STATION TO RECOVER.
Public Notification:	TEMPORARY SIGNS.

Notifications:

12/17/19 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
12/17/19 1:00 AM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION

KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0078956	MSD0277	DEREK R. GUTHRIE	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	60679	9114 CINDERELLA LN		FISHPOOL CREEK	DITCH

Activity Code / Description	WO #	Ref No	Initiated	Initiated By	Assigned To	Disch Status	Event Date	Problem	Result	Completed	Condition
: DISREV: RAIN EVENT DISCHARGE	3190152		12/29/2019	MORRIS	MORRIS	DOCUMENTE D	12/15/2007	LACK OF SYSTEM CAPAC	UNAUTHORIZED DISCHARGE-WATER	12/30/19 04:30 AM	

Discharge Reporting:

Discharge Amount:	7,500 GAL
Cause:	LACK OF SYSTEM CAPACITY - HEAVY RAIN.
Clean Up:	NONE POSSIBLE DUE TO MAGNITUDE OF STORM.
Control Zone:	TEMPORARY SIGNS HAVE BEEN POSTED.
Impact:	SEWAGE/DEBRIS/SOLIDS/PERSONAL HYGIENE PRODUCTS FOUND AROUND MANHOLE.
Repair:	SITE FOUND DURING RAIN EVENT RECON - WILL BE MONITORED AND EVALUATED FOR REPAIR.
Public Notification:	TEMPORARY SIGNS HAVE BEEN POSTED.

Notifications:

12/30/19 1:00 PM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
12/30/19 1:00 PM	DISSNO	WAITING TO COMPLETE THE DISCHARGE INFORMATION



KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0078956	MSD0277	DEREK R. GUTHRIE	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SMHSewer Manhole	61266	4005 KIRBY LN		FERN CREEK	DITCH

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Ref No</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
: DISREV: RAIN EVENT DISCHARGE	3190259		12/30/2019	BOUTIN	BRAZEL	DOCUMENTE D	12/27/2015	MECHANICAL FAILURE	UNAUTHORIZED DISCHARGE-WATER	12/30/19 02:30 PM	

Discharge Reporting:

Discharge Amount:	2,460 GAL
Cause:	MECHANICAL FAILURE, PUMPS AIRLOCKED.
Clean Up:	DEBRIS RAKED, BAGGED AND HAULED OFF WO # 3190326.
Control Zone:	PERMANENT SIGNS SUPPLEMENTED WITH TEMPORARY SIGNS.
Impact:	SEWAGE/PERSONAL HYGIENE PRODUCTS FOUND IN THE STREAM.
Repair:	REPLACED THE FAULTY FLOAT SWITCH THAT CAUSED THE PUMPS TO AIRLOCK WO # 3190322.
Public Notification:	PERMANENT SIGNS SUPPLEMENTED WITH TEMPORARY SIGNS.

Notifications:

12/31/19 1:00 AM	DISNOT	EMAIL NOTIFICATION OF UNAUTHORIZED DISCHARGE SENT TO:DISCHARGENOTICES@LOUISVILLEMSD.ORG, SAYRE.DENNIS@EPAMAIL.EPA.GOV
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KPDES #	Facility ID	Water Quality Treatment Center	Receiving Stream of Treatment Center	Region
KY0078956	MSD0277	DEREK R. GUTHRIE	OHIO RIVER	WEST

Facility Type	Facility ID	Facility Address	If Pump Station, Name of Pump Station:	Receiving Stream	Discharge to
SSL Sewer Service Line	BW01857479	7201 FEGENBUSH LN			

<u>Activity Code / Description</u>	<u>WO #</u>	<u>Ref No</u>	<u>Initiated</u>	<u>Initiated By</u>	<u>Assigned To</u>	<u>Disch Status</u>	<u>Event Date</u>	<u>Problem</u>	<u>Result</u>	<u>Completed</u>	<u>Condition</u>
: DISDW: DRY WEATHER DISCHARGE	3188394		12/24/2019	CALLOWAY	CALLOWAY			OBSTRUCTION- NOT GREASE /	UNAUTHORIZED DISCHARGE-WATER PM	12/25/19 02:54	LAT

Discharge Reporting:

Discharge Amount:	1,080 GAL
Cause:	HEAVY SLUDE AND PAPER IN MSD'S PORTION OF THE PROPERTY SERVICE LINE
Clean Up:	CUSTOMER CLEANED IMPACTED AREA
Control Zone:	PUT SIGNS UP AROUND IMPACTED AREA
Impact:	SEWAGE AND WATER
Repair:	CAMERA WAS ABLE TO REMOVE PAPER AND SLUDGE...NOT DIGGING NEEDED
Public Notification:	ADVISED CUSTOMER TO AVOID CONTACT

Total Facilities Printed: 4

Total Work Orders Printed: 5

Name of Sewage Treatment Plant: West County WTP County: Jefferson Month of: December 2019
 KPDES Permit Number: KY0078956 Plant Capacity: 30 MGD Receiving Stream: Ohio River

Date	Total Flow (MG)	Raw Sewage		pH		Settleable Solids (mL/L)			Dissolved Oxygen (mg/L)			Suspended Solids (mg/L)			Total Solids (mg/L)			5-day BOD (mg/L)		Activated Sludge		Aeration Basin						Phosphorus mg/L		Final			Total mg/L		Cr +6 mg/L									
		Removed (cu. ft.)	Screenings (cu. ft.)	Raw	Final	Raw	Primary (or Sec.)	Final	Stream Above	Final	Stream Below	Raw	Primary (or Sec.)	Final	Raw	Primary (or Sec.)	Final	Raw	Primary (or Sec.)	Final	Raw	MLSS mg/L X 1000	WAS	Gal/Day X 1000	Oxygen (mg/L) #1	Oxygen (mg/L) #2	(mg/L) X 1000 #1 & #2	MLVSS (mg/L) X 1000	30 min. SVI	60 min. SVI	% Solids	Raw	Final	Chlorine Residual (mg/L)	NH3-N (mg/L)	E. Coli (MPN)	Raw	Final	Final					
1	147.37			6.9	6.9				7.0		270.0		10.0			165.0		13.0		5060						1980	1600	90				5.60	0.63	0.016	1.20	1990								
2	95.29			7.2	7.1				8.0		230.0		10.0			275.0		16.0		5180							2750	2040	135				0.016	1.40	3450									
3	67.51			7.0	7.0				8.0		197.0		10.0			199.0		6.0		4760							2180	1740	140				0.016	1.20	78	20	10							
4	56.87			7.2	7.0				7.0		310.0		10.0			298.0		13.0		2820							1110	890	150				0.016	1.20	49									
5	51.78			7.2	7.1				6.0		277.0		11.0			218.0		19.0		4640							3520	2740	150				0.016	1.90	36									
6	49.25			7.3	7.1				6.0		280.0		16.0			308.0		19.0		5500							2960	2300	150				0.016	2.10	7									
7	42.92			7.3	7.2				7.0		1200.0		14.0			515.0		18.0		6050							2390	1800	150				0.016	2.60	2									
8	43.03			7.0	7.2				7.0		528.0		18.0			451.0		16.0		4060							2180	1640	100			7.96	2.05	0.016	2.70	9								
9	44.33			7.3	7.1				7.0		1360.0		18.0			674.0		18.0		5200							2940	2260	130				0.016	2.40	2	81	12							
10	45.64			7.3	6.9				7.0		320.0		14.0			250.0		20.0		3880							2400	1800	140				0.016	2.60	54		239							
11	41.60			7.4	7.2				7.0		550.0		15.0			375.0		18.0		5080							2380	1900	140				0.016	2.20	9							0.005		
12	40.96			7.1	7.0				7.0		605.0		14.0			259.0		19.0		5100							2580	2060	150				0.016	2.60	2									
13	41.45			7.1	7.0				7.0		330.0		18.0			284.0		26.0		6060							4160	3260	150				0.016	2.20	9									
14	68.96			6.9	7.0				6.0		245.0		14.0			216.0		16.0		8050							2440	1890	120				0.016	2.10	2									
15	54.68			7.0	7.2				7.0		154.0		11.0			127.0		13.0		7150							2700	2080	150			4.70	0.85	0.016	1.60	38								
16	88.54			7.1	7.2				7.0		335.0		14.0			226.0		18.0		8560							2560	2080	140				0.016	1.70	13	32	8							
17	124.28			7.0	7.1				7.0		163.0		8.0			122.0		10.0		6460							2640	2060	140				0.016	1.10	66									
18	86.80			7.3	7.3				7.0		150.0		7.0			106.0		11.0		6860							3460	2700	180				0.016	1.30	2									
19	66.03			7.2	6.9				7.0		248.0		7.0			74.0		10.0		6260							3100	2500	180				0.016	2.00	2									
20	58.58			7.4	7.0				7.0		230.0		7.0			231.0		13.0		6200							3500	2860	180				0.016	2.10	2									
21	51.93			7.2	7.1				7.0		252.0		8.0			178.0		14.0		6930							3010.00	2330	190				0.016	2.30	2									
22	48.62			7.2	7.1				7.0		207.0		7.0			206.0		8.0		6800							3590	2690	200			4.83	1.16	0.016	2.60	8								
23	46.07			7.1	7.0				7.0		585.0		11.0			457.0		21.0		6820							2900.00	2240	190				0.016	6.60	4									
24	46.61			7.1	7.2				6.0		784.0		10.0			542.0		17.0		7280							2520	2020	150				0.016	6.50	4									
25	40.60			7.0	6.9				6.0		568.0		14.0			382.0		26.0		4250							2110	1610	130				0.016	7.60	4	12	45							
26	39.09			7.0	7.0				7.0		676.0		16.0			607.0		16.0		3120							1510	1210	100				0.016	11.10	2									
27	30.98			7.1	7.1				7.0		308.0		13.0			282.0		21.0		6540							3600	2900	140				0.016	4.80	204									
28	22.96			7.3	6.9				7.0		628.0		8.0			419.0		11.0		7020							3720	3000	210				0.016	1.80	39									
29	59.87			7.3	7.2				7.0		480.0		24.0			255.0		16.0		6980							3480	2700	180				0.016	2.50	2									
30	138.82			6.9	6.7				7.0		916.0		8.0			529.0		8.0		6720							2520	1840	140				0.016	0.72	17									
31	67.57			7.0	7.2				8.0		895.0		6.0			501.0		6.0		5380							2900	2200	210				0.016	0.26	8									
Total	1909.0	0	0																	0.0		0.0																						
Avg	61.58			7.1	7.1				6.9		460.4		12.0			313.2		15.4		5824.84							2767.42	2159.35	151.77				5.77	1.17	0.016	2.74	12	28	25	0.005				

Industrial Connections: _____
 Sewer Connections X 3 = 102744
 _____ 36173
 _____ 34248
 _____ 1907
 _____ 18
 _____ 483738 Flow
 _____ 843534 BOD
 _____ 1023113 TSS
 Operator: Kendrietta Hayes
 Cert. #: 25850
 Phone #: 502-540-6000